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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/501,236	07/12/2004	Thomas Beckert	253871US0PCT	3554
22850 7590 07/01/2008 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER	
			SHEIKH, HUMERA N	
ALEAANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			1618	
			NOTIFICATION DATE	DELIVERY MODE
			07/01/2008	ELECTRONIC

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

	Application No.	Applicant(s)			
	10/501,236	BECKERT ET AL.			
Office Action Summary	Examiner	Art Unit			
	Humera N. Sheikh	1618			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) ☐ Responsive to communication(s) filed on 28 Ag  2a) ☐ This action is <b>FINAL</b> . 2b) ☐ This  3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) 9 and 13-16 is/are wit 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-8 and 10-12 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers  9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on is/are: a) ☐ acceedable and applicant may not request that any objection to the orange.	thdrawn from consideration.  relection requirement.  r.  epted or b) □ objected to by the Edrawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correcti  11) The oath or declaration is objected to by the Ex-		• •			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 7/12/04;10/4/04;5/12/05;9/16/05;3/27/06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			



Application No.

Application/Control Number: 10/501,236

Art Unit: 1618

**DETAILED ACTION** 

Page 2

Status of the Application

Applicant's election without traverse of Group I (claims 1-13) and election of species:

1a) claims 2-16; 2a) pellets in capsule and 3a) capsule in the reply filed on 04/28/08 is

acknowledged. Examiner also acknowledges the Information Disclosure Statements (IDS) filed

07/12/04, 10/04/04, 05/12/05, 09/16/05 and 03/27/06.

Claim 9 and 13-16 have been withdrawn from further consideration pursuant to 37 CFR

1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking

claim. Election was made without traverse in the reply filed on 28 April 2008.

Claims 1-16 are pending in this action. Claims 9 and 13-16 have been withdrawn (non-

elected invention). Claims 1-8 and 10-12 are being examined in this action. Claims 1-8 and 10-

12 are rejected.

**Priority** 

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers

have been placed of record in the file.

\* \* \* \* \*

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Application/Control Number: 10/501,236 Page 3

Art Unit: 1618

Claims 1 and 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite

for failing to particularly point out and distinctly claim the subject matter which applicant

regards as the invention.

Claim 1 is indefinite because the limitation "an inner layer, which may where appropriate

be applied to a core" is unclear as to whether or not the inner layer is required to be applied to

the core and if so, under what conditions should it be applied to the core. It appears that

Applicant intended application of the inner layer to the core to be an optional feature. If this is

the case, the claim should be amended to recite "an inner layer, optionally applied to a core...".

Claim 1 is indefinite based on the limitation of the "inner layer, with the active ingredient

budesonide, bound in a binder". It is unclear as to whether the binder component and the

budesonide are both provided in the same inner layer or whether the inner layer is composed of a

multi-layered construction, whereby the budesonide is bound in one of the layers.

Claim 1 is also indefinite based on the limitation, "pharmaceutically usual excipients".

More definitive language would be "pharmaceutically acceptable excipients".

Claim 8 recites the limitation "wherein the capsule" in line 2. There is insufficient

antecedent basis for this limitation in the claim. (It appears claim 8 should be dependent upon

claim 7, rather than claim 6).

\* \* \* \* \*

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-8 and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beckert *et al.* (hereinafter "Beckert") (WO 01/68058).

**Beckert ('058)** teaches a multilayer pharmaceutical product that substantially comprises a) a core containing a pharmaceutically active substance, b) an inner coating consisting of a copolymer or a mixture of copolymers that are composed of 85 to 98 wt.% of radically polymerized  $C_1$  to  $C_4$  alkyl esters of the acrylic or methacrylic acid and 15 to 2 wt.% of meth(acrylate) monomers with a quaternary ammonium group in the alkyl group, and c) an outer

coating consisting of a copolymer that is composed of 75 to 95 wt.% of radically polymerized C<sub>1</sub> to C<sub>4</sub> alkyl esters of the acrylic or methacrylic acid and 5 to 25 wt.% of meth(acrylate) monomers with an anionic group in the alkyl group. The product is used for producing a pharmaceutical product that releases the active substance contained therein according to the USP release test, at pH 1.2 during 2 hours and subsequent rebuffering to pH 7.0, by less than 5% after 2.0 hours after start of the test and by 30 to 80% % after eight hours after start of the test (Abstract). The active substance can be budesonide. The dosage form includes a binder such as collidon 25 as well as an internal coat of Eudragit RS and RL and an external enteric coating of Eudragit FS (Example 1 - pages 16-18).

The instant invention would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made, given the teachings of Beckert.

\* \* \* \* \*

Claims 1-8 and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ulmius (U.S. Pat. No. 5,643,602).

Ulmius ('602) teaches oral pharmaceutical compositions for use in the treatment of inflammatory bowel diseases comprising corticosteroids, such as budesonide (see column 1, lines 10-15); (col. 3, lines 9-15). The composition is formulated as a multiple unit composition in a capsule (col. 4, lines 50-50). Each unit comprises a core, a first layer on the core and a second layer on the first layer. The core consists of a non-pareil seed to which the glucocorticosteroid is applied or a seed in which the glucocorticosteroid is homogeneously distributed. Excipients used to prepare the seeds include polymeric binding agents (col. 5, lines

Application/Control Number: 10/501,236 Page 6

Art Unit: 1618

3-11). The first layer on the non-pareil seeds comprises the glucocorticosteroid and a water-

soluble or water-insoluble polymer which acts both as a binder for the glucocorticosteroid and as

a rate-limiting layer for release of the glucocorticosteroid. Preferred film-forming polymers

taught include ethylcellulose or copolymers of acrylic and methacrylic acid esters such as

EUDRAGIT® NE, EUDRAGIT® RL and EUDRAGIT® RS (col. 5, lines 12-26). Suitable

polymers for the second layer are taught at column 5, lines 34-48.

The Examples demonstrate various embodiments of the invention. For instance,

Example 1 at column 8 shows preparation of a budesonide formulation. Budesonide was

suspended in Aquacoat ECD 30 dispersion with the aid of Polysorbate 80 together with

acetyltributyl citrate. The mixture was sprayed onto sugar spheres in a fluid bed apparatus. The

enteric coating consisted of, among other components, the Eudragit L100-55 dispersion, which

was then sprayed on the spheres. The pellets were dried, sieved and filled into hard gelatin

capsules.

The instant invention would have been *prima facie* obvious to one of ordinary skill in the

art at the time the invention was made, given the teachings of Ulmius. Ulmius provides for a

multi-layered constructed pharmaceutical formulation comprising the same active ingredient -

budesonide, with the same polymeric components (i.e., binder) and formulated for the same field

of endeavor as that instantly desired by Applicant.

\* \* \* \* \*

Information Disclosure Statement

Examiner kindly requests a certified English translation of Foreign document - WO

01/68058 (Beckert et al.) in reply to this Action.

Application/Control Number: 10/501,236 Page 7

Art Unit: 1618

Conclusion

-- No claims are allowed at this time.

Correspondence

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Humera N. Sheikh whose telephone number is (571) 272-0604.

The examiner can normally be reached on Monday, Tuesday, Thursday and Friday during

regular business hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Hartley, can be reached on (571) 272-0616. The fax phone number for the

organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have any questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Humera N. Sheikh/

Primary Examiner, Art Unit 1618

hns

June 23, 2008

Application/Control Number: 10/501,236

Art Unit: 1618

Page 8